

PATENT  
104322.147US5



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Thomas CHITTENDEN *et al.*.

Serial No.: TO BE ASSIGNED

Group Art Unit: TO BE ASSIGNED

Filed: 10 April 2001

Examiner: TO BE ASSIGNED

For: NOVEL PEPTIDES AND COMPOSITIONS WHICH MODULATE APOPTOSIS

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

**SUBMISSION OF PAPER COPY OF SEQUENCE LISTING AND  
REQUEST FOR USE OF COMPUTER READABLE  
FORM FROM PARENT APPLICATION**

Applicants declare that the computer readable form in the application filed concurrently herewith is identical to the second computer readable form filed on 20 September 2000 in parent application Serial No. 09/236,385, filed 25 January 1999 (hereinafter "the '385 application").

Therefore, applicants request, in accordance with 37 C.F.R. § 1.821(e), that the second-filed computer readable form filed in the '385 application be used as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary changes in application number and filing date for the computer readable form that will be used for the instant application. A paper copy of the Sequence Listing is concurrently herewith. Applicant submit that the information recorded in the computer readable form filed on 20 September 2000 in the '385 application is identical to the paper copy of the sequence listing

09/828870-04/10/01

New Application for Chittenden *et al.*  
Filed 10 April 2001  
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filed herewith. Accordingly, no new matter is added by the Sequence Listing.

Respectfully submitted,

HALE AND DORR, L.L.P.

By:

Henry N. Wixon  
Reg No. 32,073

Date: 10 April 2001

Hale and Dorr, L.L.P.  
1455 Pennsylvania Ave. N.W.  
Washington, D.C. 20004-1008

09933670-041001

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANTS: CHITTENDEN, Thomas D.; and  
LUTZ, Robert J.
- (ii) TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS WHICH  
MODULATE APOPTOSIS
- (iii) NUMBER OF SEQUENCES: 41
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Hale and Dorr
  - (B) STREET: 1455 Pennsylvania Avenue, N.W.
  - (C) CITY: Washington
  - (D) STATE: D.C.
  - (F) ZIP: 20004
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: 09/236,385
  - (B) FILING DATE: 25-JANUARY-1999
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: WIXON, HENRY N.
  - (B) REGISTRATION NUMBER: 32,073
  - (C) ATTORNEY DOCKET NO. 104322.147CIP
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: 202-942-8400
  - (B) TELEFAX: 202-942-8484

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 13 amino acid
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Gly Asp Asp Ile Asn Arg Arg Tyr Asp Ser Glu Phe Gln  
5 10

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28 amino acid
  - (B) TYPE: amino acid

[illegible]

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

(2) INFORMATION FOR SEQ ID NO:3:

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

(2) INFORMATION FOR SEQ ID NO:4:

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

(2) INFORMATION FOR SEQ ID NO:5:

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Leu Lys Arg Ile Gly Asp Glu Leu Asp  
5

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys Arg Ile Gly  
                  5                  10                  15  
Asp Glu Leu Asp Ser Asn Met Glu Leu Gln  
                  20                  25

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Val Ser  
                  5                  10                  15

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Ile Gly Asp Glu Met  
                  5

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Asp Leu Ala Cys Ile Gly  
                  5                  10                  15

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1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

2. The second step is to set goals. These should be specific, measurable, achievable, relevant, and time-bound (SMART).

3. The third step is to develop a plan. This involves identifying the resources needed and the steps to be taken.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. The fifth step is to evaluate the results. This involves comparing the actual results with the goals and identifying areas for improvement.

6. The sixth step is to adjust the plan. This involves making changes to the plan based on the evaluation results.

7. The seventh step is to communicate the results. This involves sharing the results with the relevant stakeholders.

8. The eighth step is to document the process. This involves recording the steps taken and the results achieved.

9. The ninth step is to review the process. This involves reflecting on the process and identifying lessons learned.

10. The tenth step is to celebrate success. This involves recognizing the achievements and the efforts of the team.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Ala Val

(ii) MOLECULE TYPE: peptide

Leu Gln His Leu  
35

(ii) MOLECULE TYPE: DNA (genomic)

TTCCAGACCA TGTTCAGCA CCTGCAGCCC ACG  
93

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 31 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn Arg Arg  
                  5                  10                  15  
Tyr Asp Ser Glu Phe Gln Thr Met Leu Gln His Leu Gln Pro Thr  
                  20                  25                  30

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 84 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

CCTAGCAGCA CCATGGGGCA GGTGGGACGG CAGCTCGCCA TCATCGGGGA CGACATCAAC  
60  
CGACGCT ATGACTCAGA GTTCCAG  
84

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 28 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Pro Ser Ser Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly  
                  5                  10                  15  
Asp Asp Ile Asn Arg Arg Tyr Asp Ser Glu Phe Gln  
                  20                  25

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 45 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

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(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

CAGGATGCGT CCACCAAGAA GCTGAGCGAG TGTCTCAAGC GCATCGGGGA CGAACTGGAC  
60

AGTAACATGG AGCTGCAG  
78

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 26 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys Arg Ile Gly  
5 10 15

Asp Glu Leu Asp Ser Asn Met Glu Leu Gln  
20 25

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 45 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

CTGAGCGAGT GTCTCAAGCG CATCGGGGAC GAACTGGACA GTAAC  
45

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 15 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Leu Ser Glu Cys Leu Lys Arg Ile Gly Asp Glu Leu Asp Ser Asn  
5 10 15

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 27 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

CTCAAGCGCA TCGGGGACGA ACTGGAC  
27

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Leu Lys Arg Ile Gly Asp Glu Leu Asp  
5

(2) INFORMATION FOR SEQ ID NO:29:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 84 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

TGCATGGAGG GCAGTGACGC ATTGGCCCTG CGGCTGGCCT GCATCGGGGA CGAGATGGAC  
60

GTGAGCCTGA GGGCCCCGCG CCTG  
84

(2) INFORMATION FOR SEQ ID NO:30:

109823004001

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly  
                           5                          10                          15  
 Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu  
                           20                          25

(2) INFORMATION FOR SEQ ID NO:31:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 45 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

TTGGCCCTGC GGCTGGCCTG CATCGGGGAC GAGATGGACG TGAGC  
 45

(2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Val Ser  
                           5                          10                          15

(2) INFORMATION FOR SEQ ID NO:33:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

ATCGGGGACG AGATG  
 15

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(2) INFORMATION FOR SEQ ID NO:34:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Ile Gly Asp Glu Met  
5

(2) INFORMATION FOR SEQ ID NO:35:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Met Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn  
5 10 15

Arg Arg Tyr

(2) INFORMATION FOR SEQ ID NO:36

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36

Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile  
5 10 15

Asn Arg Arg Tyr  
20

(2) INFORMATION FOR SEQ ID NO:37

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

05000000 044001

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37

Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn Arg  
5 10 15

(2) INFORMATION FOR SEQ ID NO:38

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 15 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38

Gln Val Gly Arg Gln Ala Ala Ile Ile Gly Asp Asp Ile Asn Arg  
5 10 15

(2) INFORMATION FOR SEQ ID NO:39

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39

Ala Ala Asp Pro Leu His Glu Ala Met Arg Ala Ala Gly Asp Glu Phe  
5 10 15

Glu Thr Arg Phe  
20

(2) INFORMATION FOR SEQ ID NO:40

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40

Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys Arg Ile Gly Asp Glu Leu  
5 10 15

Asp Ser Asn His  
20

(2) INFORMATION FOR SEQ ID NO:41

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 amino acids

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41

Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met  
5 10 15  
Asp Val Ser Leu  
20